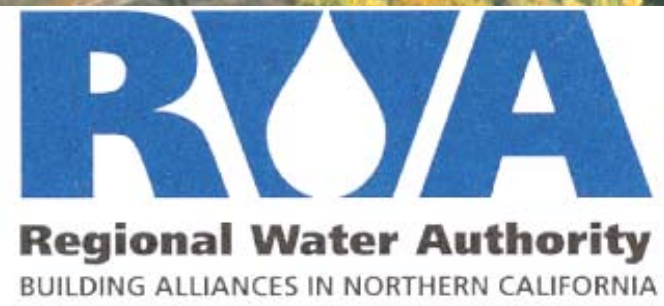


# Integrated Regional Planning

## *DWR Conjunctive Water Management Workshop*

*January 20, 2005*



*Ed Winkler  
Executive Director  
Regional Water Authority*

# **Today's Presentation**

- **Problems and Challenges**
- **Recent Cooperative Planning Efforts**
- **Regional Water Authority's IRWMP Program**

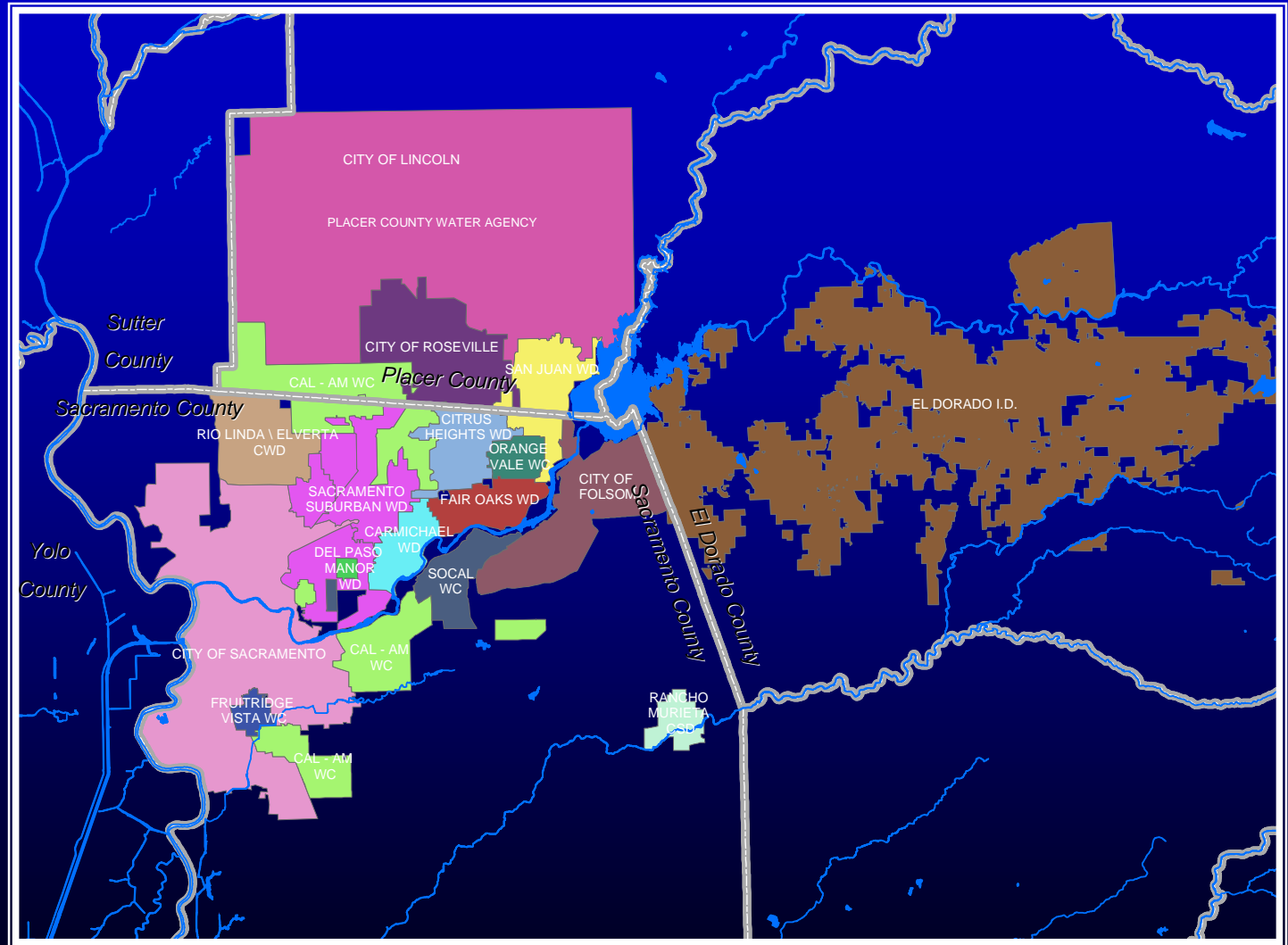
# RWA Members

## Member Agencies:

California-American WC  
Carmichael WD  
Citrus Heights WD  
Del Paso Manor WD  
El Dorado ID  
Fair Oaks WD  
Folsom, city of  
Fruitridge Vista WC  
Lincoln, city of  
Orange Vale WC  
Placer County WA  
Rancho Murieta CSD  
Roseville, city of  
Rio Linda/Elverta CWD  
Sacramento, city of  
Sacramento Suburban WD  
San Juan WD  
Southern California WC

## Associates:

El Dorado County WA  
Sacramento MUD  
Sacramento Regional CSD



# Problems/Challenges

- Increasing Population, Water Demands
- Environmental Needs
- Declining Groundwater levels
- Water Quality Issues
- Floods/droughts
- Multiple autonomous agencies; lack of interconnected infrastructure

# Growing Demands





# **Planned Water Use from the American River**

**CURRENT DIVERSIONS = 216,500 AF**

(Based on 1995 Levels)

**PROJECTED DIVERSIONS = 481,000 AF**

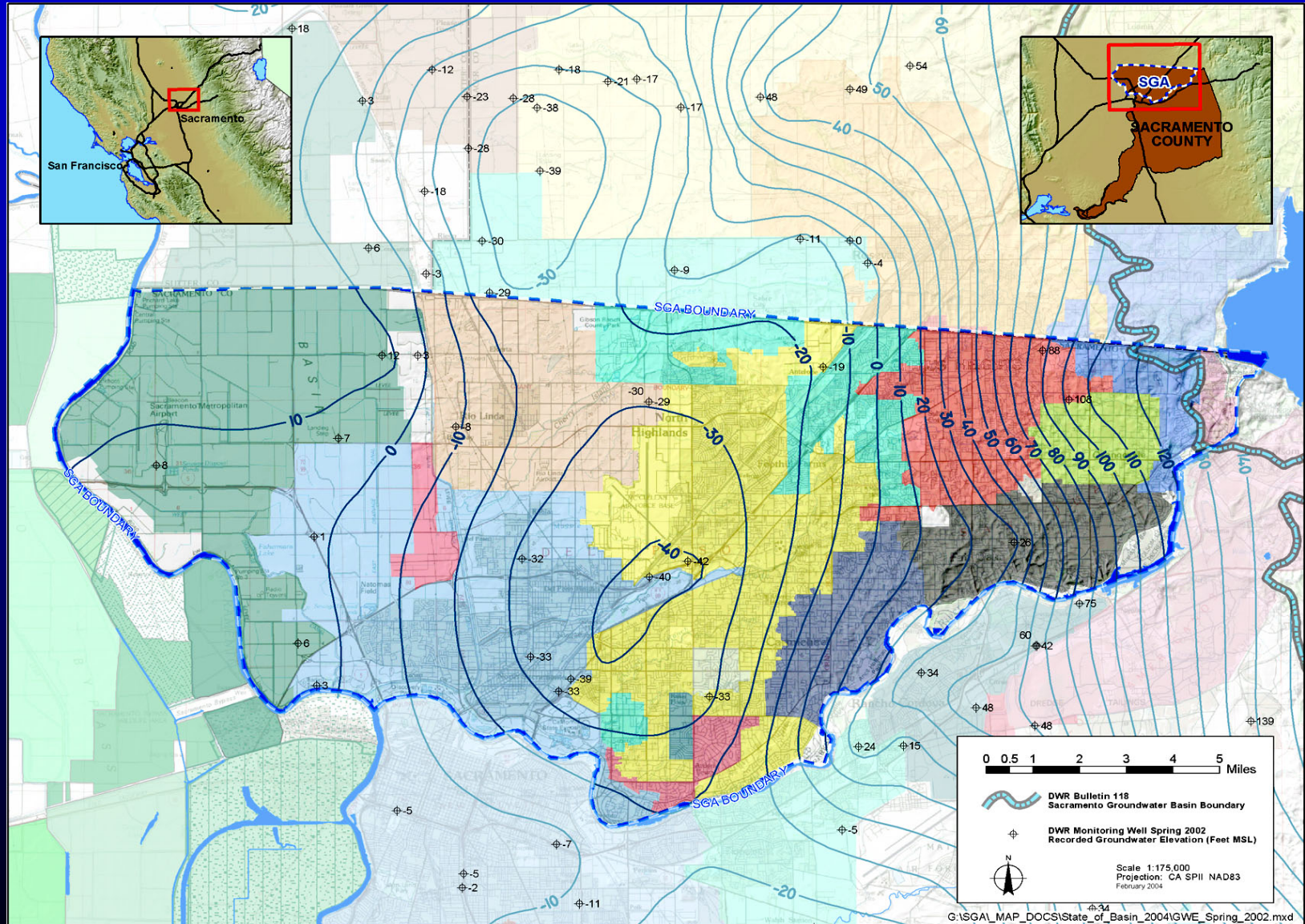
(Through Year 2030)

# Environmental Needs

- **Designated National Wild and Scenic River**
- **Endangered Fish (Chinook Salmon and Steelhead)**
- **American River flow and temperature requirements**



# Regional Cone of Depression

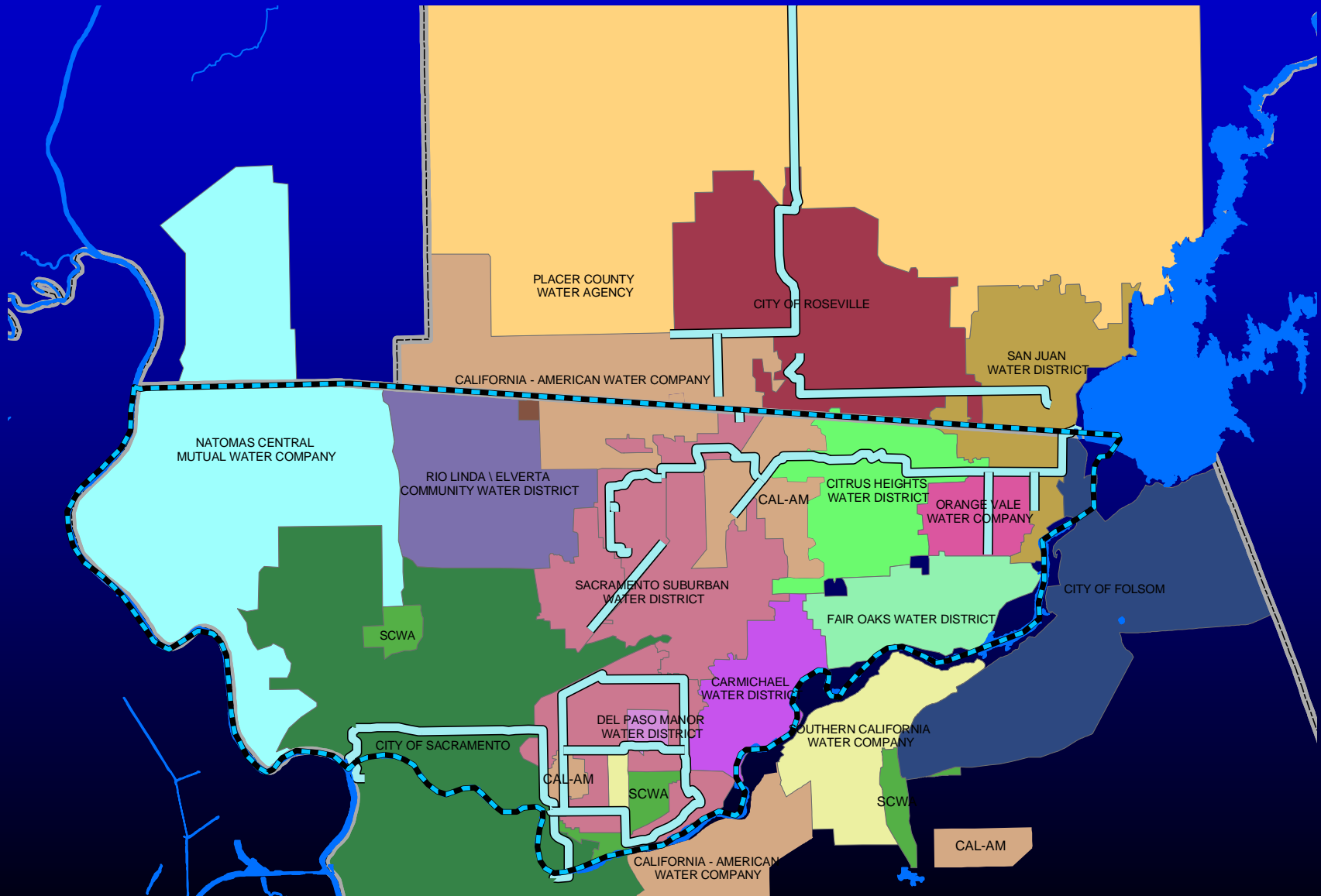




# **Water Quality Issues**

- **Groundwater Contamination Plumes:  
Aerojet, McClellan AFB, Mather AFB, and  
rail yards contamination**
- **New water quality standards**
- **Leaking Underground Fuel Tanks**

# Multiple Agencies - Independent Systems



# **History of Cooperative Planning**

**1990 – SMWA forms**

**1993 – Water Forum process begins**

**1998 – SGA Established**

**1998 – ARBCA launches**

**2000 – Water Forum Agreement signed**

**2000 – RWA succeeds SMWA**

**2002 – ARBCUP Program**

**2003 – ARBCA completes RWMP, sunsets**

**2004 – RWA IRWMP Program launches**



# Water Forum Agreement

- MOU signed in 2000 with more than 40 diverse stakeholder interests
- Programmatic EIR/EIS adopted
- Provide a reliable and safe water supply for the region's economic health and planned development through 2030
- Preserve the fishery, wildlife, recreational, and aesthetic values of the Lower American River



# Key Milestone: Water Forum Agreement

- Surface Water Diversion Limits
- Improved LAR In-stream Flows
- LAR Habitat Management Element
- Water Conservation Element
- Regional Groundwater CU Framework:
  - Purveyors launch collaborative planning efforts:  
ARBCA, SGA, and RWA



# RWA Background

- Joint powers authority
- Forum for water policy collaboration
- Representation of Regional Interests
- Supportive of Water Forum Agreement
- Opportunity for subscription programs:
  - Integrated Regional Planning
  - Water Efficiency
  - Grants



# RWA Background (cont.)

- Not an owner/operator of facilities
- Not regulatory in any way
- Not a substitute for local water suppliers

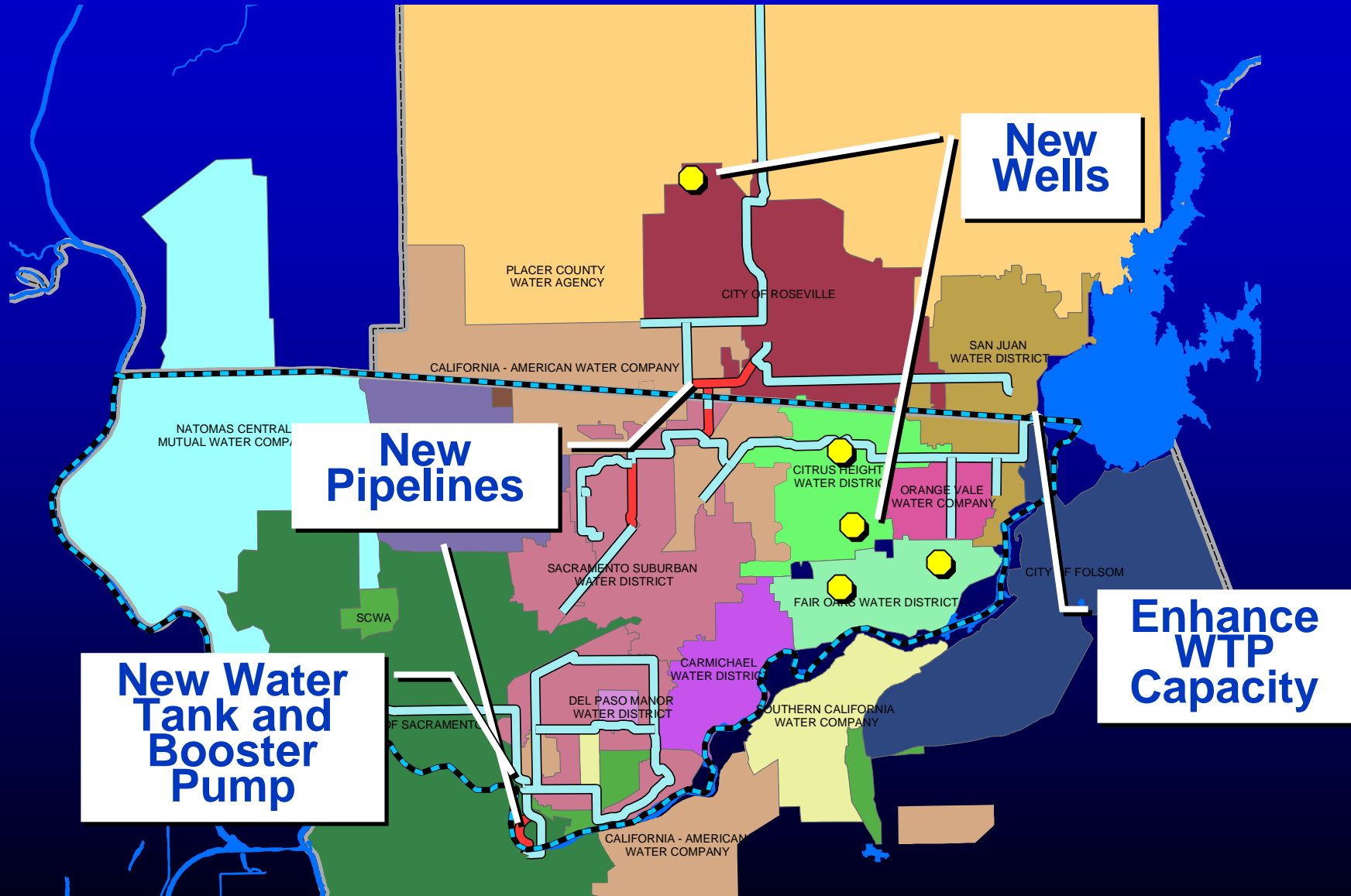


# **American River Basin Conjunctive Use Program**

- **Began with ARBCA effort identifying regional needs and opportunities**
- **RWA provided institutional framework for successful grant (\$22 million)**
- **Better integrates operation of surface water with groundwater basin**
- **Improved system interconnections**



# ARBCUP Infrastructure



# **ARBCUP Benefits**

- **Greater local supply reliability (<21 TAF annual yield)**
- **Broader benefits**
  - **Reduced diversion from American River in drier years**
  - **More cold water in Folsom**
  - **Enhanced water quality for downstream needs**
- **Precedent for larger scale projects**

# **RWA IRWMP Program**

- **Extension of Regional Water Master Plan completed in 2003**
- **Intended to:**
  - **Integrate existing/ongoing local planning efforts**
  - **Enhance supply reliability by identifying and exploring mutually beneficial partnerships between purveyors**
  - **Develop needed analytical tools**
  - **Gain compliance with recent laws**
  - **Maximize funding opportunities for projects**

# **IRWMP Program Components**

- **Complete menu of projects and programs**
- **Describe opportunities for agreements**
- **Bolster regional water efficiency program**
- **Bolster regional water recycling program**
- **Develop water accounting framework**
- **Improve analytical tools**
  - **Expand/enhance groundwater model and monitoring**
  - **Develop regional hydraulic model**
- **Develop DWR-compliant IRWMP**



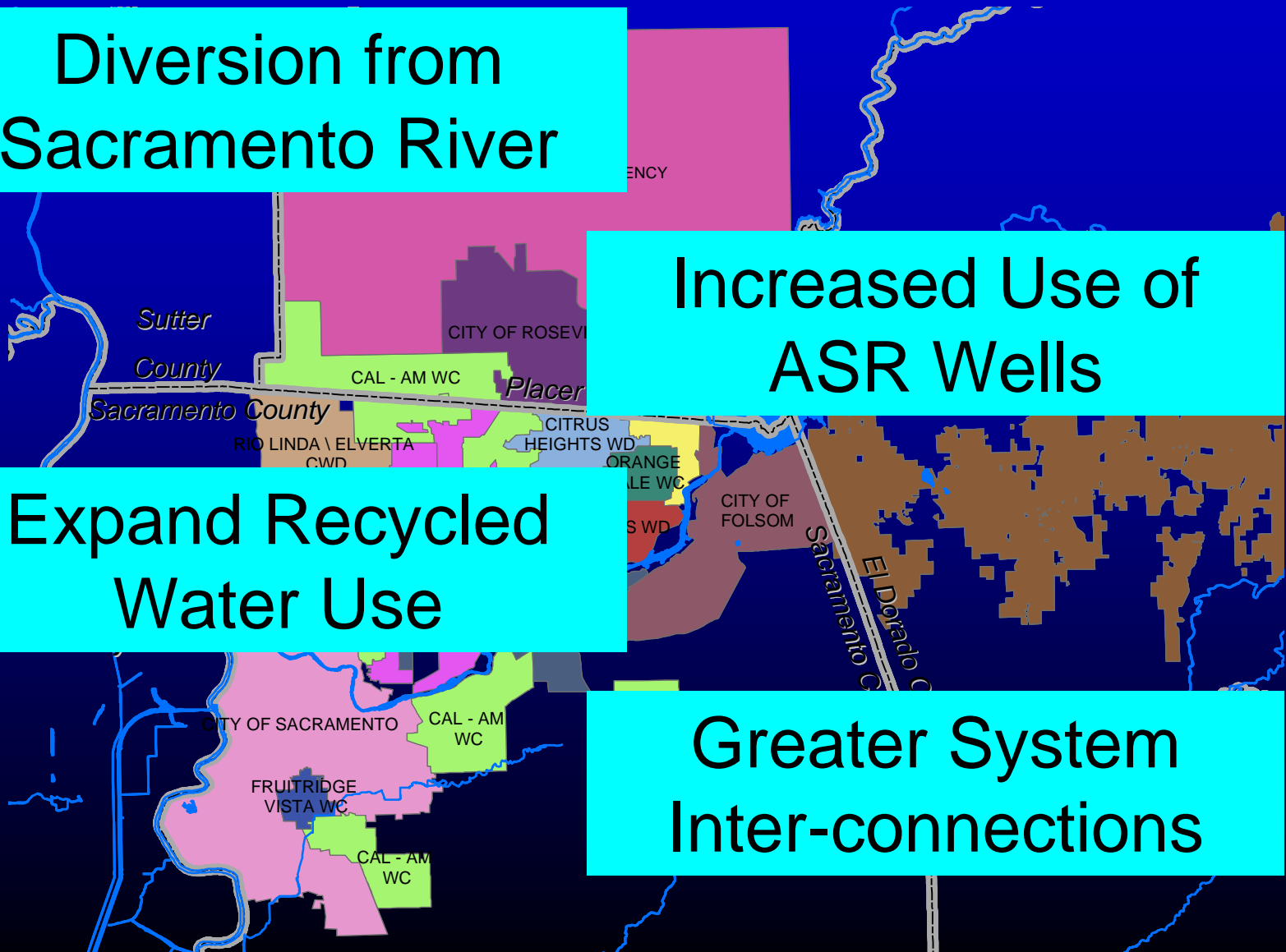
# Future Regional Effort

Diversion from  
Sacramento River

Increased Use of  
ASR Wells

Expand Recycled  
Water Use

Greater System  
Inter-connections



# **IRWMP Benefits**

- **Local:**
  - **Mutually beneficial partnerships**
    - **Promotes diversified solutions**
    - **Enhances efficiency, supply reliability**
  - **Implementation of WFA**
  - **Eligibility for partnership funding**
- **State:**
  - **LAR environmental benefits (Endangered fish)**
  - **Enhanced dry-year LAR flows**
  - **Water Quality**
  - **CALFED consistency: promotes conjunctive use; EWA possibilities**

# Summary

- **Region Still Faces Many Challenges**
  - **Growth; Environment; GW Contamination; Droughts;**
  - **Multiple agencies; Regional Infrastructure**
  - **Financing; Regulatory hurdles**
- **Wisdom in Going “Regional”**
  - **Water Forum provides balanced framework**
  - **RWA model: Collaborate while maintaining individual agency autonomy**
- **IRWMP Partnership Opportunities Abound**
  - **Local benefits**
  - **Statewide benefits**

# For More Information

[www.rwah2o.org](http://www.rwah2o.org)

**Ed Winkler**

**(916) 967-7692**

